

## Title (en)

Liquid crystalline compound, liquid crystal composition containing the same and liquid crystal display device

## Title (de)

Flüssigkristalline Verbindung, sie enthaltende flüssigkristalline Zusammensetzung und flüssigkristalline Anzeigevorrichtung

## Title (fr)

Composé cristal liquide, composition de cristaux liquides le contenant et dispositif d'affichage à cristaux liquides

## Publication

**EP 0733610 A1 19960925 (EN)**

## Application

**EP 96104518 A 19960321**

## Priority

JP 9027795 A 19950323

## Abstract (en)

The present invention describes a hexynediene derivative expressed by the following general formula I and liquid crystal compositions containing the derivative : <CHEM> wherein R<1> and R<2> independently represent an alkyl group or alkoxy group each having 1 to 10 carbon atoms, ring A and ring B independently represent 1,4-cyclohexylene or 1,4-phenylene. A liquid crystal display device containing said composition is also described.

## IPC 1-7

**C07C 13/28**; **C09K 19/30**; **C09K 19/18**; **C07C 43/188**; **C07C 43/215**; **C07C 15/50**

## IPC 8 full level

**C07C 13/28** (2006.01); **C07C 15/50** (2006.01); **C07C 43/188** (2006.01); **C07C 43/215** (2006.01); **C09K 19/18** (2006.01); **C09K 19/30** (2006.01); **C09K 19/42** (2006.01); **C09K 19/44** (2006.01); **C09K 19/46** (2006.01); **G02F 1/13** (2006.01)

## CPC (source: EP KR US)

**C07C 13/28** (2013.01 - EP US); **C07C 43/188** (2013.01 - EP US); **C07C 43/215** (2013.01 - EP US); **C09K 19/18** (2013.01 - EP KR US); **C09K 19/3059** (2013.01 - EP KR US); **C09K 19/345** (2013.01 - KR); **C09K 19/44** (2013.01 - KR); **C09K 19/46** (2013.01 - KR); **G02F 1/13** (2013.01 - KR); **C07C 2601/14** (2017.04 - EP US); **C09K 2019/0444** (2013.01 - EP US); **C09K 2019/0496** (2013.01 - EP US)

## Citation (search report)

- [DA] EP 0597701 A1 19940518 - CHISSO CORP [JP]
- [A] WO 9403556 A1 19940217 - HUGHES AIRCRAFT CO [US], et al
- [A] EP 0137697 A1 19850417 - TOSHIBA KK [JP]
- [PA] EP 0672742 A1 19950920 - CHISSO CORP [JP]
- [DA] GRANT B: "Diacetylenic liquid crystals. Synthesis and preliminary characterization of 4,4'-dialkyl and 4,4'-dialkoxy derivatives of diphenyldiacetylene", MOL. CRYST. LIQ. CRYST. (MCLCA5,00268941);78; VOL.48 (3-4); PP.175-82, IBM;RES. LAB.; SAN JOSE; CALIF., XP000572251
- [A] HAMBRECHT J ET AL: "Enynes from cyclooctatetraene oxide", CHEM. BER. (CHBEAM);74; VOL.107 (9); PP.2985-91, UNIV. TUEBINGEN;CHEM. INST.; TUEBINGEN; GER., XP002008349

## Cited by

EP1006098A3

## Designated contracting state (EPC)

CH DE GB LI

## DOCDB simple family (publication)

**EP 0733610 A1 19960925**; **EP 0733610 B1 19981028**; CN 1140160 A 19970115; DE 69600854 D1 19981203; JP H08259474 A 19961008; KR 960034368 A 19961022; TW 314547 B 19970901; US 5635108 A 19970603

## DOCDB simple family (application)

**EP 96104518 A 19960321**; CN 96103165 A 19960322; DE 69600854 T 19960321; JP 9027795 A 19950323; KR 19960007809 A 19960322; TW 84105872 A 19950609; US 62015996 A 19960322